ELK Biotechnology

ATP-citrate synthase (phospho Ser455) rabbit pAb

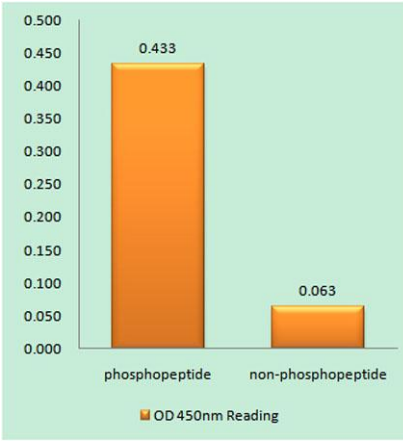
Cat No.:ES6342

For research use only

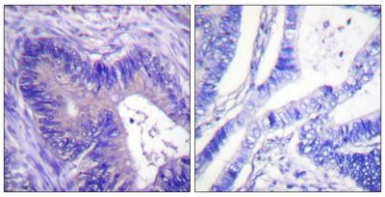
Overview

Product Name	ATP-citrate synthase (phospho Ser455) rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse;Rat;Monkey
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human ATP-Citrate Lyase around the phosphorylation site of Ser454. AA range:420-469
Specificity	Phospho-ATP-citrate synthase (S455) Polyclonal Antibody detects endogenous levels of ATP-citrate synthase protein only when phosphorylated at S455.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	ATP-citrate synthase
Gene Name	ACLY
Cellular localization	Cytoplasm, cytosol .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	125kD
Human Gene ID	47
Human Swiss-Prot Number	P53396
Alternative Names	ACLY; ATP-citrate synthase; ATP-citrate; pro-S-)-lyase; ACL; Citrate cleavage enzyme
Background	ATP citrate lyase(ACLY) Homo sapiens ATP citrate lyase is the primary enzyme responsible for

the synthesis of cytosolic acetyl-CoA in many tissues. The enzyme is a tetramer (relative molecular weight approximately 440,000) of apparently identical subunits. It catalyzes the formation of acetyl-CoA and oxaloacetate from citrate and CoA with a concomitant hydrolysis of ATP to ADP and phosphate. The product, acetyl-CoA, serves several important biosynthetic pathways, including lipogenesis and cholesterogenesis. In nervous tissue, ATP citrate-lyase may be involved in the biosynthesis of acetylcholine. Multiple transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Dec 2014],



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using ATP-Citrate Lyase (Phospho-Ser454) Antibody



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using ATP-Citrate Lyase (Phospho-Ser454) Antibody. The picture on the right is blocked with the phospho peptide.

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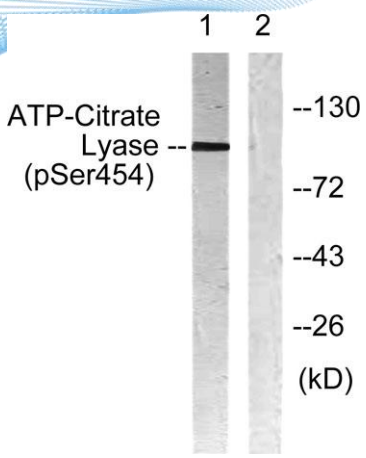

Western blot analysis of lysates from COS7 cells treated with Calyculin 50nM 30', using ATP-Citrate Lyase (Phospho-Ser454) Antibody. The lane on the right is blocked with the phospho peptide.

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